

Datasheet for 612-401-D57**GABA Transporter 2 (GAT2) Antibody****Overview**

Description:	Anti-GABA Transporter 2 (GAT2) (RABBIT) Antibody - 612-401-D57
Item No.:	612-401-D57
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	GAT2 Antibody detects rat GAT2 protein. Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a Cl ⁻ channel associated with the GABAA receptor (GABAA-R) subtype. GABA plasma membrane transporters (GATs) influence synaptic neurotransmission by high-affinity uptake and release of GABA. To date, four distinct GABA transporters have been identified: GAT-1, GAT-2, GAT-3, and BGT-1. GAT-2 is found in a wide range of neuronal and non-neuronal cells including dendrites and axon terminals as well as epithelial cells and cells forming the pia and arachnoid complex. Anti-GAT2 Antibody is ideal for investigators involved in Neuroscience.
Synonyms:	Sodium- and chloride-dependent GABA transporter 2, Solute carrier family 6 member 13, Slc6a13, Gabt2, Gat-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Slc6a13
Reactivity:	Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GABA Transporter 2 Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH.
Purity/Specificity:	Anti-GAT2 antibody is directed against rat GAT2 protein. GABA Transporter 2 antibodies are affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity is expected from the following species based on 100% sequence homology: mouse.
Relevant Links:	• UniProtKB - P31646 • GeneID - 171163 • NCBI - NP_598307.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-GAT2 (Rabbit) Antibody is tested for use in WB and IHC. Specific conditions for reactivity should be optimized by the end user. GAT2 antibody is specific for the approximately 82 kDa in size GABA Transporter 2 protein.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:100-200
WB:	1:100-200

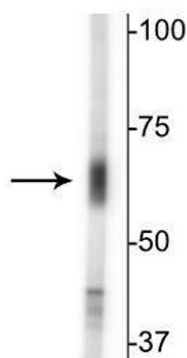
Formulation

Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot of Anti-GAT2 antibody.

Mouse whole brain lysate showing specific immunolabeling of the ~67 kDa GAT-2 protein.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.